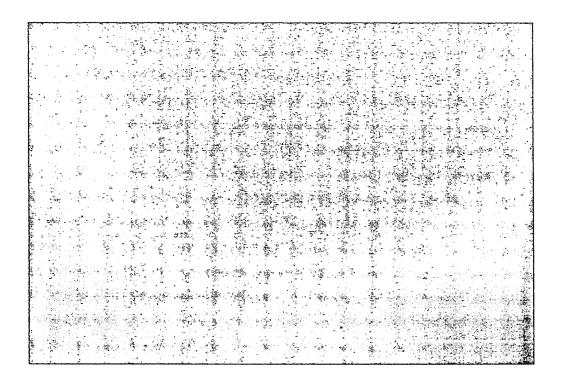
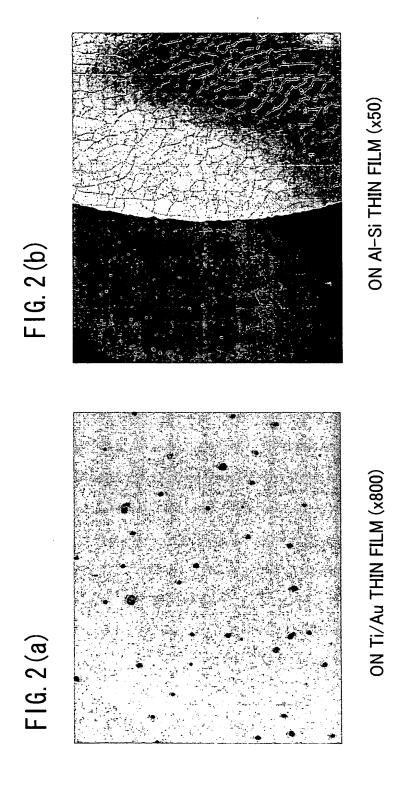
FIG. 1



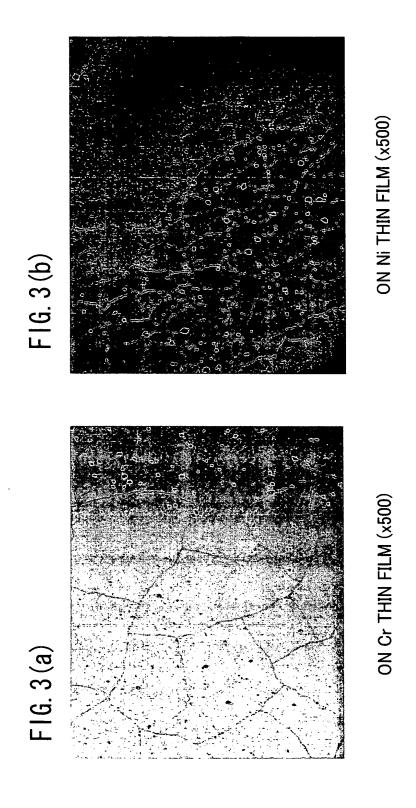
ON W THIN FILM

OPTICAL MICROSCOPIC PHOTOGRAPH OF SURFACE OF AIN THIN FILM (x800)

BEST AVAILABLE COPY



OPTICAL MICROSCOPIC PHOTOGRAPH OF SURFACE OF AIN THIN FILM



OPTICAL MICROSCOPIC PHOTOGRAPH OF SURFACE OF AIN THIN FILM

FIG. 4

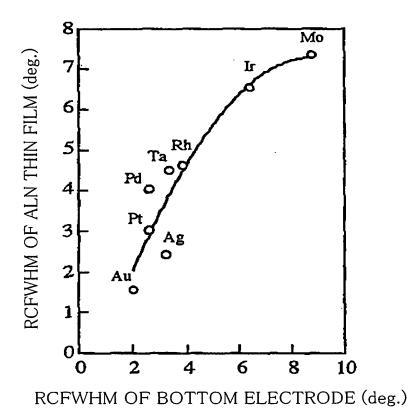
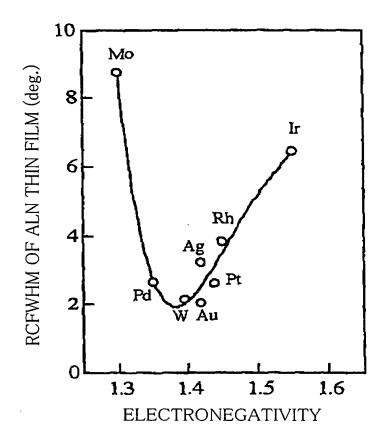
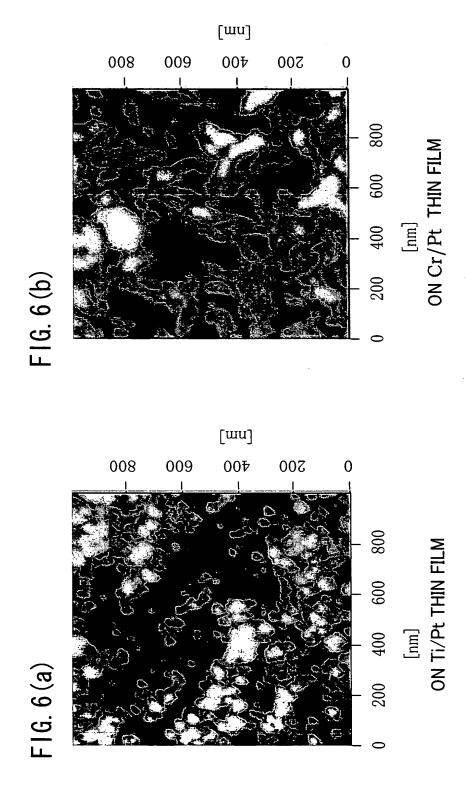


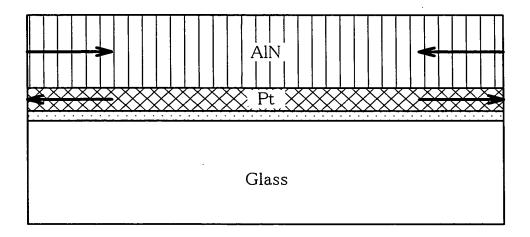
FIG. 5



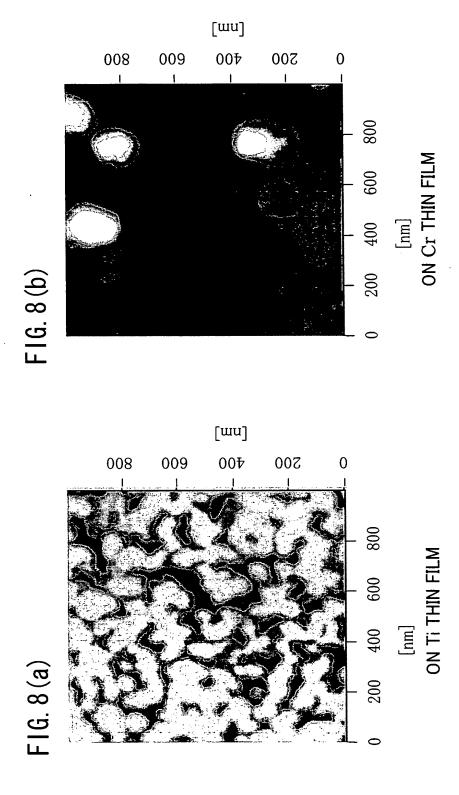


ATOMIC FORCE MICROSCOPE (AFM) IMAGE OF SURFACE OF AIN THIN FILM

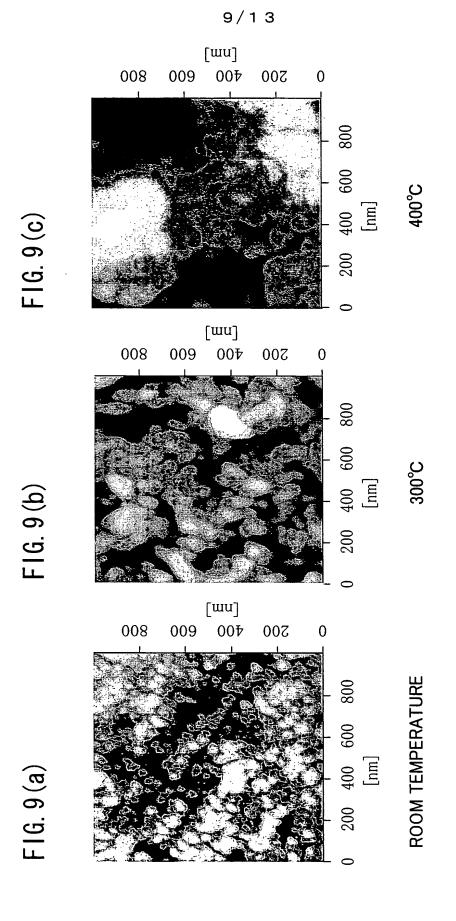
FIG. 7



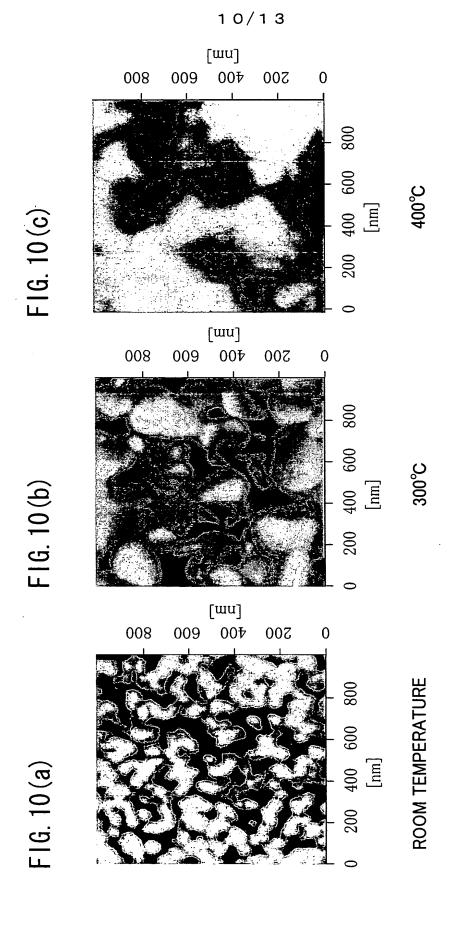
STRESS ACTING ON THIN FILM



ATOMIC FORCE MICROSCOPE (AFM) IMAGE OF SURFACE OF Pt THIN FILM

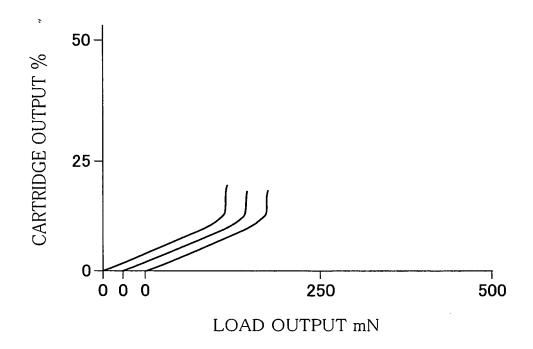


ATOMIC FORCE MICROSCOPE (AFM) IMAGES OF SURFACES OF AIN THIN FILMS ON TI/Pt THIN FILMS PROCESSED AT DIFFERENT TEMPERATURES



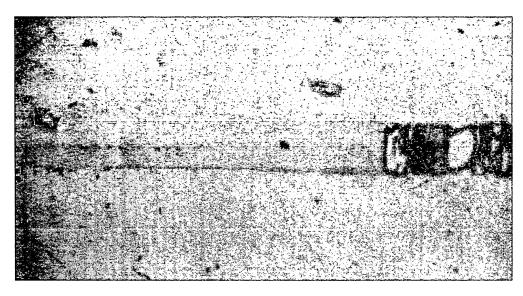
ATOMIC FORCE MICROSCOPE (AFM) IMAGES OF SURFACES OF Pt THIN FILMS ON TI/Pt THIN FILMS PROCESSED AT DIFFERENT TEMPERATURES

FIG. 11



LOAD-OUTPUT GRAPH

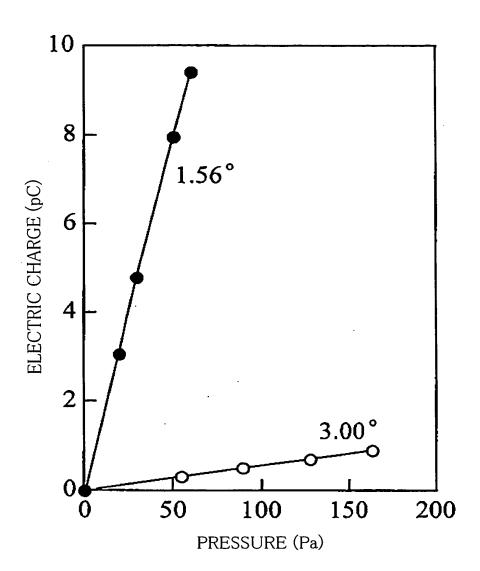
FIG. 12



DIRECTION OF MEASUREMENT→

MICROSCOPE PHOTOGRAPH OF SCRATCH (x150)

FIG. 13



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